



Space Launch System

The Future of Exploration

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Space Launch System
NASA Marshall Space Flight Center

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SLS Future Frontier Video
Goes Here!



A Deeper Purpose, A Bolder Mission



“To reach for new heights...

and reveal the unknown so that what we do
and learn will benefit all humankind.”



The Next Great Ship



Ships of exploration opened the paths
that became today's trade routes.



NASA's Space Launch System

Orion:

Carrying astronauts into
deep space

Interim Cryogenic Propulsion Stage:

Based on the Delta IV Heavy upper
stage; the power to leave Earth

Core Stage:

Newly developed for SLS,
the Core Stage towers more
than 200 feet tall

Solid Rocket Boosters:

Built on Space Shuttle
hardware; more powerful for a
new era of exploration

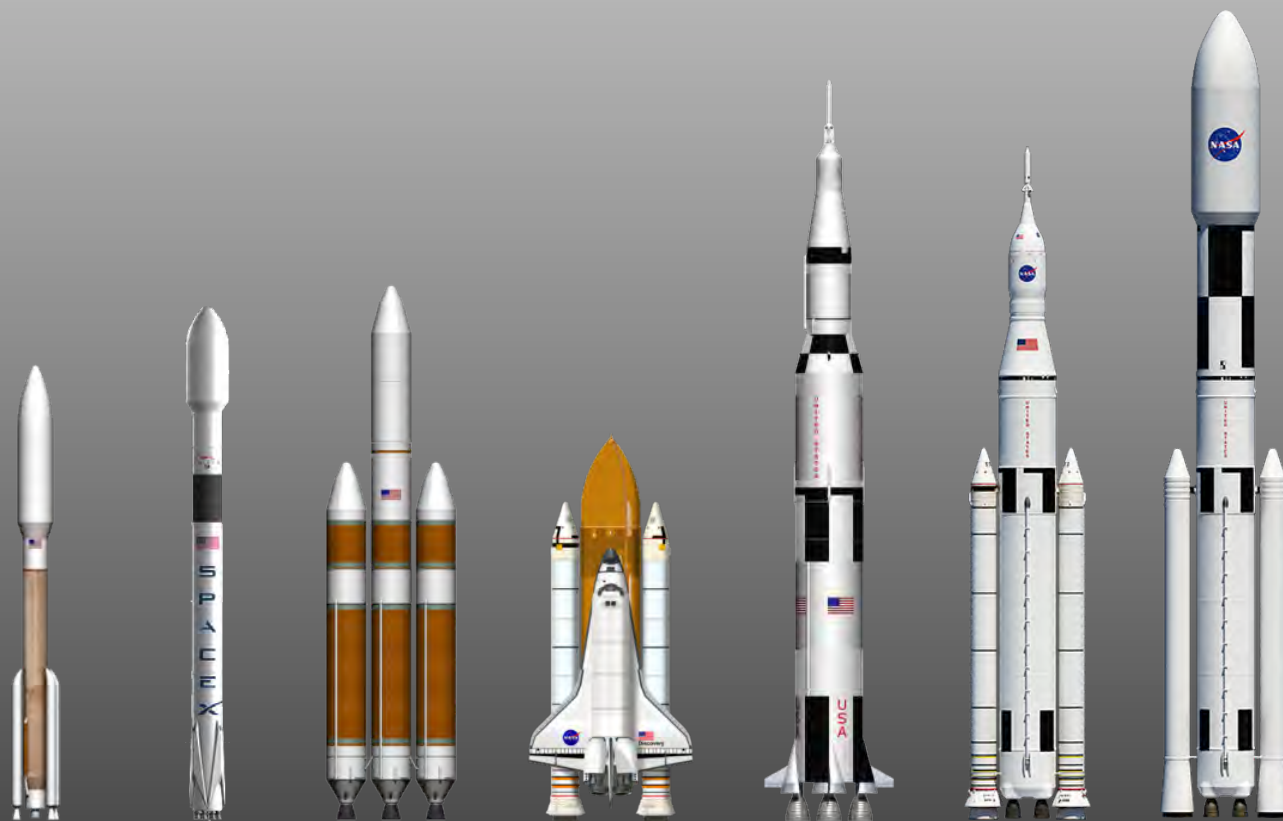
RS-25 Engines:

16 Space Shuttle engines are
already in inventory





Bigger
Rocket =
Unrivaled
Mass,
Unrivaled
Volume



Enables missions
no other rocket can perform.



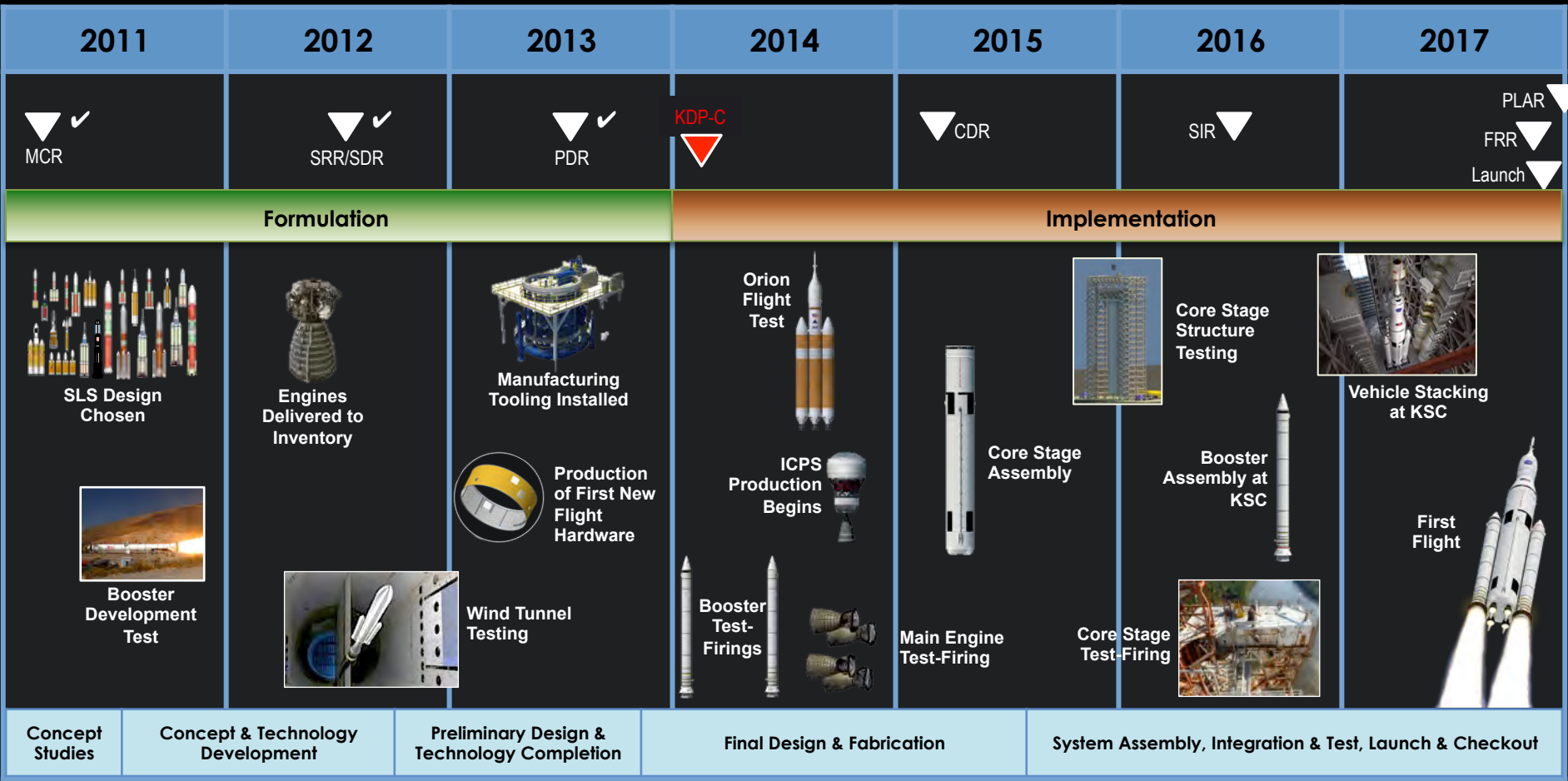
A National Effort



224 Subcontracts in 30 States are
advancing technology and innovation.



SLS Development Schedule



MCR: Mission Concept Review	CDR: Critical Design Review
SRR: System Requirements Review	SIR: System Integration Review
SDR: System Definition Review	FRR: Flight Readiness Review
PDR: Preliminary Design Review	PLAR: Post-Launch Asses. Review



Moving
rapidly
toward
the
launch
pad

Space Launch System is currently
designing, tooling, building & testing.





SLS's first launch will send Orion
beyond the moon into deep space.

First
flight in
four
years





SLS is the first step in the **journey to Mars**



Going to Mars will be difficult.
SLS provides the power that it takes.



NASA and America's future is built on
**science, technology, engineering
and mathematics.**

Today's
students
**will create
tomorrow**





How Your Major/ Career Connects

University of Alabama in Huntsville College of Engineering Degrees

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Optical Engineering



Sherryl Kittredge (Right) with NASA Administrator and MSFC Director



Van Strickland (Left)



Johnny Heflin



Monica Hammond



Kimberly Robinson (Left)



Why
Wait?

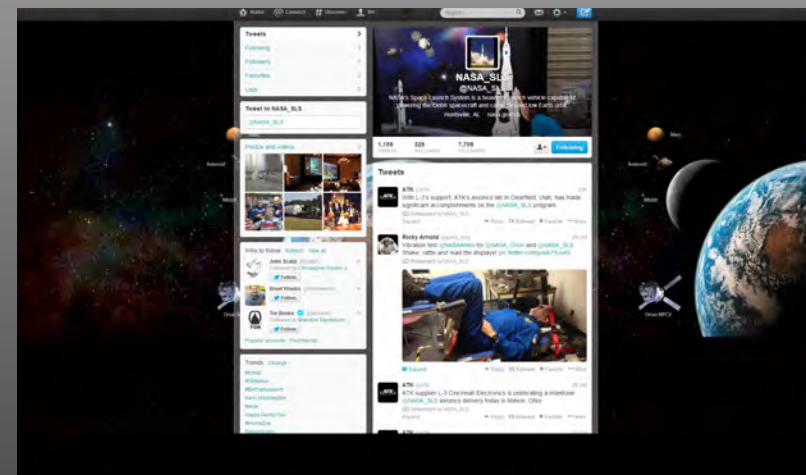




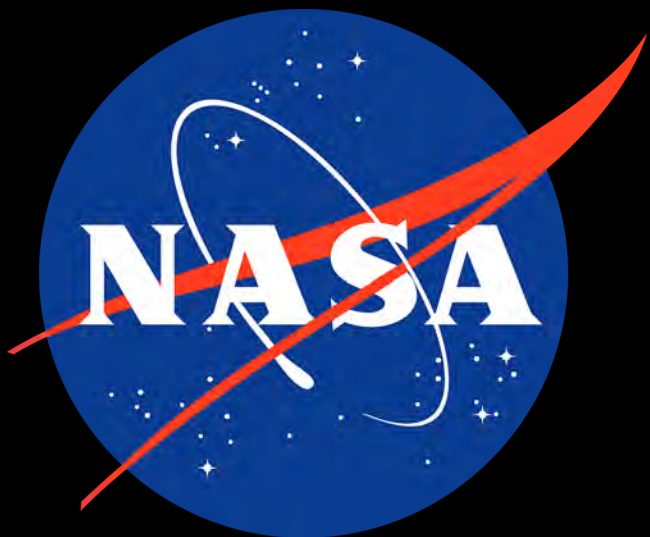
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“Man cannot discover
new oceans
unless he has the
courage to lose
sight of the shore.”

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the journey

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Questions & Answers

